

COMBINED DECLARATION FOR PATENT  
APPLICATION AND POWER OF ATTORNEY  
(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER  
19603/3357 (CRF D-1595G)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE DETECTION  
REACTION WITH ADDRESSABLE ARRAYS**

the specification of which (check only one item below):

☒ is attached hereto.

☐ was filed as U.S. Patent Application Serial No. \_\_\_\_\_ on \_\_\_\_\_ and was amended on \_\_\_\_\_  
(if applicable).

☐ was filed as PCT International Application Number \_\_\_\_\_ on \_\_\_\_\_ and was amended under PCT Article 19  
on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specifications, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37,  
Code of Federal Regulations, § 1.56(a).

I hereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or  
any PCT international application(s) designating at least one country other than the United States listed below and have also identified  
below any application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country  
other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of  
which priority is claimed:

**PRIOR APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (IF PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
United States	60/011,359	09 February 1996	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

COMBINED DECLARATION FOR PATENT  
APPLICATION AND POWER OF ATTORNEY  
(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER  
19603/461 (CRF D-1595A)

As a below named inventor, I hereby declare that:

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I believe I am an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE  
DETECTION REACTION WITH ADDRESSABLE ARRAYS

the specification of which (check only one item below):

☐ is attached hereto.

☒ was filed as United States application  
Serial No. 08/794,851  
on February 4, 1997  
and was amended  
on \_\_\_\_\_ (if applicable).

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PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (IF PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
UNITED STATES	60/011,359	9 FEB 1996	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (Check One)			
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			

**COMBINED DECLARATION FOR PATENT  
APPLICATION AND POWER OF ATTORNEY (Continued)**  
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**ATTORNEY'S DOCKET NUMBER**  
**19603/3357 (CRF D-1595G)**

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**U.S. APPLICATIONS**

**STATUS (Check One)**

**U.S. APPLICATION NUMBER**

**U.S. FILING DATE**

**PATENTED**

**PENDING**

**ABANDONED**

**08/794,851**

**04 February 1997**

**X**

**PCT APPLICATIONS DESIGNATING THE U.S.**

**PCT  
APPLICATION NO.**

**PCT  
FILING DATE**

**U.S. SERIAL NUMBERS  
ASSIGNED (if any)**

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. **Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Ann R. Pokalsky, Registration No. 34,697; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Choi, Registration No. 45,758; Andrew K. Gonsalves, Registration No. 48,145; Noreen L. Connolly, Registration No. 48,987; John Campa, Registration No. 49,014**

Send Correspondence to:

**Michael L. Goldman  
NIXON PEABODY LLP  
Clinton Square, P.O. Box 31051  
Rochester, New York 14603**

Direct telephone calls to:  
**Michael L. Goldman  
(716) 263-1304**

201	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> <b>Barany</b>	<b>FIRST GIVEN NAME</b> <b>Francis</b>	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> <b>New York</b>	<b>STATE/FOREIGN COUNTRY</b> <b>New York</b>	<b>COUNTRY OF CITIZENSHIP</b> <b>United States</b>
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> <b>450 E. 63<sup>rd</sup> Street, Apt. #12C</b>	<b>CITY</b> <b>New York</b>	<b>STATE &amp; ZIP CODE/COUNTRY</b> <b>New York 10021/USA</b>
202	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> <b>Barany</b>	<b>FIRST GIVEN NAME</b> <b>George</b>	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> <b>Falcon Heights</b>	<b>STATE/FOREIGN COUNTRY</b> <b>Minnesota</b>	<b>COUNTRY OF CITIZENSHIP</b> <b>United States</b>
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> <b>1813 Prior Avenue, North</b>	<b>CITY</b> <b>Falcon Heights</b>	<b>STATE &amp; ZIP CODE/COUNTRY</b> <b>Minnesota 55113/USA</b>
203	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> <b>Hammer</b>	<b>FIRST GIVEN NAME</b> <b>Robert</b>	<b>SECOND GIVEN NAME</b> <b>P.</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> <b>Baton Rouge</b>	<b>STATE/FOREIGN COUNTRY</b> <b>Louisiana</b>	<b>COUNTRY OF CITIZENSHIP</b> <b>United States</b>
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> <b>4967 Tulane Drive</b>	<b>CITY</b> <b>Baton Rouge</b>	<b>STATE &amp; ZIP CODE/COUNTRY</b> <b>Louisiana 70808/USA</b>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

**SIGNATURE OF INVENTOR 201**

**SIGNATURE OF INVENTOR 202**

**SIGNATURE OF INVENTOR 203**

**UNSIGNED**

**UNSIGNED**

**UNSIGNED**

**DATE**

**DATE**

**DATE**

COMBINED DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY (Continue)

ATTORNEY'S DOCKET NUMBER  
19603/461 (CRF D-1595A)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727

Send Correspondence to: Michael L. Goldman  
Nixon, Hargrave, Devans & Doyle LLP  
Clinton Square, P. O. Box 1051  
Rochester, New York 14603

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(name and telephone number)  
Michael L. Goldman  
(716) 263-1304

201	FULL NAME OF INVENTOR	FAMILY NAME Barany	FIRST GIVEN NAME Francis	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP USA
	POST OFFICE ADDRESS	P.O. ADDRESS 450 E. 63rd Street Apt. #12C	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA
202	FULL NAME OF INVENTOR	FAMILY NAME Barany	FIRST GIVEN NAME George	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Falcon Heights	STATE/FOREIGN COUNTRY Minnesota	COUNTRY OF CITIZENSHIP USA
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	POST OFFICE ADDRESS	P.O. ADDRESS 4967 Tulane Drive	CITY Baton Rouge	STATE & ZIP CODE/CTRY Louisiana 70808/USA
204	FULL NAME OF INVENTOR	FAMILY NAME Kempe	FIRST GIVEN NAME Maria	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY <del>Minneapolis</del> Lund	STATE/FOREIGN COUNTRY <del>Minnesota</del> Sweden	COUNTRY OF CITIZENSHIP Sweden
	POST OFFICE ADDRESS	P.O. ADDRESS <sup>Knut den</sup> <del>401 South 1st Street,</del> Stores 101 ic Apt. 1404	CITY <del>Minneapolis</del> Lund	STATE & ZIP CODE/CTRY <del>Minnesota 55401/USA</del> S-222 21 Lund, Sweden
205	FULL NAME OF INVENTOR	FAMILY NAME Blok	FIRST GIVEN NAME Herman	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Wemeldinge	STATE/FOREIGN COUNTRY Netherlands	COUNTRY OF CITIZENSHIP Netherlands
	POST OFFICE ADDRESS	P.O. ADDRESS Westelijke Kanaalweg 53	CITY Wemeldinge	STATE & ZIP CODE/CTRY 4424 BG Wemeldinge /Netherlands
206	FULL NAME OF INVENTOR	FAMILY NAME Zirvi	FIRST GIVEN NAME Monib	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP USA
	POST OFFICE ADDRESS	P.O. ADDRESS 420 E. 70th Street Apt. 5J	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA

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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202 <i>X</i> <i>Francis Barany</i>	SIGNATURE OF INVENTOR 203
DATE	DATE <i>May 6, 1997</i>	DATE
SIGNATURE OF INVENTOR 204 <i>X</i> <i>Main tunc</i>	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE <i>May 20, 1997</i>	DATE	DATE

COMBINED DECLARATION FOR PATENT  
APPLICATION AND POWER OF ATTORNEY  
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DETECTION REACTION WITH ADDRESSABLE ARRAYS

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☒ was filed as United States application

Serial No. 08/794,851

on February 4, 1997

and was amended

on (if applicable).

☐ was filed as PCT international application Number

on and was amended under PCT Article 19 on

(if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified  
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date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (IF PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
UNITED STATES	60/011,359	9 FEB 1996	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States  
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America that is/are listed below and, insofar as the subject matter of each of the claims  
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national or PCT International filing date of this application:

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U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		

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(name and telephone number  
Michael L. Goldman  
(716) 263-1304

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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203 <i>X Robert P. Hammer</i>
DATE	DATE	DATE <i>April 25, 1997</i>
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE

COMBINED DECLARATION FOR PATENT  
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UNDER 35 U.S.C. 120:

U.S. APPLICATIONS

STATUS (Check One)

U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
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	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP USA
	POST OFFICE ADDRESS	P.O. ADDRESS 420 E. 70th Street Apt. 5J	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE 21 April 1997	DATE



COMBINED APPLICATION FOR PATENT  
APPLICATION AND POWER OF ATTORNEY  
(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER  
19603/461 (CRF D-1595A)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor (if plural names are listed below)  
of the subject matter which is claimed and for which a patent is sought on the invention  
entitled: DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING THE LIGASE  
DETECTION REACTION WITH ADDRESSABLE ARRAYS

the specification of which (check only one item below):

☐ is attached hereto.

☒ was filed as United States application  
Serial No. 08/794,851  
on February 4, 1997  
and was amended \_\_\_\_\_ (if applicable).  
on \_\_\_\_\_

☐ was filed as PCT international application Number \_\_\_\_\_  
on \_\_\_\_\_ and was amended under PCT Article 19 on \_\_\_\_\_  
(if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified  
specifications, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of  
this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any  
foreign application(s) for patent or inventor's certificate or of any PCT international  
application(s) designating at least one country other than the United States listed below  
and have also identified below any foreign application(s) for patent or inventor's  
certificate or any PCT international application(s) designating at least one country other  
than the United States of America filed by me on the same subject matter having a filing  
date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (If PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
UNITED STATES	60/011,359	9 FEB 1996	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States  
application(s) or PCT international application(s) designating the United States of  
America that is/are listed below and, insofar as the subject matter of each of the claims  
of this application is not disclosed in that/those prior application(s) in the manner  
provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the  
duty to disclose material information as defined in Title 37, Code of Federal Regulations,  
§ 1.56(a) which occurred between the filing date of the prior application(s) and the  
national or PCT International filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT  
UNDER 35 U.S.C. 120:

U.S. APPLICATIONS			STATUS (Check One)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			

COMBINED DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY (Continue)

ATTORNEY'S DOCKET NUMBER  
9603/461 (CRF D-1595A)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727

Send Correspondence to: Michael L. Goldman  
Nixon, Hargrave, Devans & Doyle LLP  
Clinton Square, P. O. Box 1051  
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Direct Telephone Calls to:  
(name and telephone number)  
Michael L. Goldman  
(716) 263-1304

201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
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		Hammer	Robert	P.
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204	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
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	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
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		Minneapolis	Minnesota	Sweden
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205	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		Blok	Herman	
		Wemeldinge	Netherlands	Netherlands
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206	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
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		New York	New York	USA
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 X <i>Dr. Francis Barany</i>	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE <i>April 17, 1997</i>	DATE	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206 X <i>Monib Zirvi</i>
DATE	DATE	DATE <i>April 17, 1997</i>